Bingzhong Xue

List of Publications by Year in Descending Order

64 papers	4,661 citations	31 h-index	68 g-index
73 ext. papers	5,331 ext. citations	7 avg, IF	5.17 L-index

#	Paper	IF	Citations
64	Epigenetic interaction between UTX and DNMT1 regulates diet-induced myogenic remodeling in brown fat. *Nature Communications*, **2021**, 12, 6838	17.4	1
63	Adipose tissue-derived neurotrophic factor 3 regulates sympathetic innervation and thermogenesis in adipose tissue. *Nature Communications*, **2021**, 12, 5362	17.4	2
62	Postnatal leptin surge is critical for the transient induction of the developmental beige adipocytes in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 318, E453-E461	6	5
61	N-Linked Glycosylation Prevents Deamidation of Glycopeptide and Glycoprotein. *ACS Chemical Biology*, **2020**, 15, 3197-3205	4.9	2
60	The histone methyltransferase Suv39h regulates 3T3-L1 adipogenesis. *Adipocyte*, **2020**, 9, 401-414	3.2	1
59	Sympathetic nerve innervation is required for beigeing in white fat. *Physiological Reports*, **2019**, 7, e14031	1.6	23
58	Ghrelin receptor in agouti-related peptide neurones regulates metabolic adaptation to calorie restriction. *Journal of Neuroendocrinology*, **2019**, 31, e12763	3.8	8
57	Sensory denervation of inguinal white fat modifies sympathetic outflow to white and brown fat in Siberian hamsters. *Physiology and Behavior*, **2018**, 190, 28-33	3.5	12
56	Neuronal Dnmt1 Deficiency Attenuates Diet-Induced Obesity in Mice. *Endocrinology*, **2018**, 159, 145-162	4.8	9
55	What activates thermogenesis when lipid droplet lipolysis is absent in brown adipocytes?. *Adipocyte* , **2018**, 1-5	3.2	10
54	Short photoperiod reverses obesity in Siberian hamsters via sympathetically induced lipolysis and Browning in adipose tissue. *Physiology and Behavior*, **2018**, 190, 11-20	3.5	17
53	AgRP knockdown blocks long-term appetitive, but not consummatory, feeding behaviors in Siberian hamsters. *Physiology and Behavior*, **2018**, 190, 61-70	3.5	4
52	Mechanisms for AgRP neuron-mediated regulation of appetitive behaviors in rodents. *Physiology and Behavior*, **2018**, 190, 34-42	3.5	8
51	Class I and II Histone Deacetylase Inhibitors Differentially Regulate Thermogenic Gene Expression in Brown Adipocytes. *Scientific Reports*, **2018**, 8, 13072	4.9	19
50	Activation of the sympathetic nervous system suppresses mouse white adipose tissue hyperplasia through the 1 adrenergic receptor. *Physiological Reports*, **2018**, 6, e13645	2.6	3
49	Separate and shared sympathetic outflow to white and brown fat coordinately regulates thermoregulation and beige adipocyte recruitment. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2017**, 312, R132-R145	3.2	44
48	Neonatal Inhibition of DNA Methylation Alters Cell Phenotype in Sexually Dimorphic Regions of the Mouse Brain. *Endocrinology*, **2017**, 158, 1838-1848	4.8	24

47	Bidirectional crosstalk between the sensory and sympathetic motor systems innervating brown and white adipose tissue in male Siberian hamsters. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2017**, 312, R324-R337	3.2	26
46	Lipolysis in Brown Adipocytes Is Not Essential for Cold-Induced Thermogenesis in Mice. *Cell Metabolism*, **2017**, 26, 764-777.e5	24.6	139
45	Leucine-nicotinic acid synergy stimulates AMPK/Sirt1 signaling and regulates lipid metabolism and lifespan in Caenorhabditis elegans, and hyperlipidemia and atherosclerosis in mice. *American Journal of Cardiovascular Disease*, **2017**, 7, 33-47	0.9	8
44	Thermoneutrality decreases thermogenic program and promotes adiposity in high-fat diet-fed mice. *Physiological Reports*, **2016**, 4, e12799	2.6	53
43	Macrophage ABHD5 promotes colorectal cancer growth by suppressing spermidine production by SRM. *Nature Communications*, **2016**, 7, 11716	17.4	50
42	Inhibiting DNA methylation switches adipogenesis to osteoblastogenesis by activating Wnt10a. *Scientific Reports*, **2016**, 6, 25283	4.9	36
41	Histone Deacetylase 1 (HDAC1) Negatively Regulates Thermogenic Program in Brown Adipocytes via Coordinated Regulation of Histone H3 Lysine 27 (H3K27) Deacetylation and Methylation. *Journal of Biological Chemistry*, **2016**, 291, 4523-36	5.4	61
40	Myeloid Deletion of AMPK Exacerbates Atherosclerosis in LDL Receptor Knockout (LDLRKO) Mice. *Diabetes*, **2016**, 65, 1565-76	0.9	29
39	Epigenetic regulation of E-cadherin expression by the histone demethylase UTX in colon cancer cells. *Medical Oncology*, **2016**, 33, 21	3.7	22
38	Epigenetic regulation of macrophage polarization and inflammation by DNA methylation in obesity. *JCI Insight*, **2016**, 1, e87748	9.9	99
37	A Combination of Leucine, Metformin, and Sildenafil Treats Nonalcoholic Fatty Liver Disease and Steatohepatitis in Mice. *International Journal of Hepatology*, **2016**, 2016, 9185987	2.7	17
36	DNA Methylation Biphasically Regulates 3T3-L1 Preadipocyte Differentiation. *Molecular Endocrinology*, **2016**, 30, 677-87		28
35	Lipolysis sensation by white fat afferent nerves triggers brown fat thermogenesis. *Molecular Metabolism*, **2016**, 5, 626-634	8.8	40
34	Leucine amplifies the effects of metformin on insulin sensitivity and glycemic control in diet-induced obese mice. *Metabolism: Clinical and Experimental*, **2015**, 64, 845-56	12.7	28
33	Macrophage CGI-58 deficiency promotes IL-1 transcription by activating the SOCS3-FOXO1 pathway. *Clinical Science*, **2015**, 128, 493-506	6.5	16
32	The Histone Demethylase UTX Promotes Brown Adipocyte Thermogenic Program Via Coordinated Regulation of H3K27 Demethylation and Acetylation. *Journal of Biological Chemistry*, **2015**, 290, 25151-63	5.4	53
31	Interaction between metformin and leucine in reducing hyperlipidemia and hepatic lipid accumulation in diet-induced obese mice. *Metabolism: Clinical and Experimental*, **2015**, 64, 1426-34	12.7	36
30	Interaction between leucine and phosphodiesterase 5 inhibition in modulating insulin sensitivity and lipid metabolism. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2015**, 8, 227-39	3.4	16

29	Genetic demonstration of intestinal NPC1L1 as a major determinant of hepatic cholesterol and blood atherogenic lipoprotein levels. *Atherosclerosis*, **2014**, 237, 609-17	3.1	13
28	Epigenetic regulation of macrophage polarization by DNA methyltransferase 3b. *Molecular Endocrinology*, **2014**, 28, 565-74		124
27	The ER-associated degradation adaptor protein Sel1L regulates LPL secretion and lipid metabolism. *Cell Metabolism*, **2014**, 20, 458-70	24.6	62
26	Macrophage CGI-58 deficiency activates ROS-inflammasome pathway to promote insulin resistance in mice. *Cell Reports*, **2014**, 7, 223-35	10.6	68
25	Intestinal Cgi-58 deficiency reduces postprandial lipid absorption. *PLoS ONE*, **2014**, 9, e91652	3.7	23
24	Loss of abhd5 promotes colorectal tumor development and progression by inducing aerobic glycolysis and epithelial-mesenchymal transition. *Cell Reports*, **2014**, 9, 1798-1811	10.6	66
23	Inhibiting DNA Methylation by 5-Aza-2Sdeoxycytidine ameliorates atherosclerosis through suppressing macrophage inflammation. *Endocrinology*, **2014**, 155, 4925-38	4.8	106
22	Synergistic effects of leucine with phosphodiesterase 5 inhibition on insulin sensitivity (1035.4). *FASEB Journal*, **2014**, 28, 1035.4	0.9	
21	Deficiency of liver Comparative Gene Identification-58 causes steatohepatitis and fibrosis in mice. *Journal of Lipid Research*, **2013**, 54, 2109-2120	6.3	50
20	The full capacity of AICAR to reduce obesity-induced inflammation and insulin resistance requires myeloid SIRT1. *PLoS ONE*, **2012**, 7, e49935	3.7	40
19	Endogenously determined restriction of food intake overcomes excitation-contraction uncoupling in JP45KO mice with aging. *Experimental Gerontology*, **2012**, 47, 304-16	4.5	6
18	Omega-3 polyunsaturated fatty acids antagonize macrophage inflammation via activation of AMPK/SIRT1 pathway. *PLoS ONE*, **2012**, 7, e45990	3.7	125
17	Regulation of insulin and leptin signaling by muscle suppressor of cytokine signaling 3 (SOCS3). *PLoS ONE*, **2012**, 7, e47493	3.7	52
16	Activation of the cholinergic antiinflammatory pathway ameliorates obesity-induced inflammation and insulin resistance. *Endocrinology*, **2011**, 152, 836-46	4.8	90
15	CGI-58 knockdown in mice causes hepatic steatosis but prevents diet-induced obesity and glucose intolerance. *Journal of Lipid Research*, **2010**, 51, 3306-15	6.3	114
14	Neuronal protein tyrosine phosphatase 1B deficiency results in inhibition of hypothalamic AMPK and isoform-specific activation of AMPK in peripheral tissues. *Molecular and Cellular Biology*, **2009**, 29, 4563-73	4.8	66
13	Association of SSTR2 polymorphisms and glucose homeostasis phenotypes: the Insulin Resistance Atherosclerosis Family Study. *Diabetes*, **2009**, 58, 1457-62	0.9	3
12	Genetic variability affects the development of brown adipocytes in white fat but not in interscapular brown fat. *Journal of Lipid Research*, **2007**, 48, 41-51	6.3	221

11	Protein-tyrosine phosphatase 1B deficiency reduces insulin resistance and the diabetic phenotype in mice with polygenic insulin resistance. *Journal of Biological Chemistry*, **2007**, 282, 23829-40	5.4	50
10	Neuronal PTP1B regulates body weight, adiposity and leptin action. *Nature Medicine*, **2006**, 12, 917-24	50.5	484
9	AMPK integrates nutrient and hormonal signals to regulate food intake and energy balance through effects in the hypothalamus and peripheral tissues. *Journal of Physiology*, **2006**, 574, 73-83	3.9	245
8	Transcriptional synergy and the regulation of Ucp1 during brown adipocyte induction in white fat depots. *Molecular and Cellular Biology*, **2005**, 25, 8311-22	4.8	147
7	Sequestration of thermogenic transcription factors in the cytoplasm during development of brown adipose tissue. *Journal of Biological Chemistry*, **2004**, 279, 25916-26	5.4	36
6	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. *Nature*, **2004**, 428, 569-74	50.4	1295
5	Agouti signaling protein stimulates islet amyloid polypeptide (amylin) secretion in pancreatic beta-cells. *Experimental Biology and Medicine*, **2001**, 226, 565-9	3.7	1
4	Mechanism of intracellular calcium ([Ca2+]i) inhibition of lipolysis in human adipocytes. *FASEB Journal*, **2001**, 15, 2527-9	0.9	167
3	Relationship between human adipose tissue agouti and fatty acid synthase (FAS). *Journal of Nutrition*, **2000**, 130, 2478-81	4.1	36
2	Agouti/melanocortin interactions with leptin pathways in obesity. *Nutrition Reviews*, **1998**, 56, 271-4	6.4	18
1	Epigenetic Interaction between UTX and DNMT1 Regulates Diet-Induced Myogenic Remodeling in Brown Fat		1